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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,210	03/17/2006	Jose A. Salas	4408-P03626US00	9982
DANN, DORFMAN, HERRELL & SKILLMAN 1601 MARKET STREET SUITE 2400 PHILADELPHIA, PA 19103-2307			EXAMINER	
			KAM, CHIH MIN	
			ART UNIT	PAPER NUMBER
			1656	
			MAIL DATE	DELIVERY MODE
			09/22/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/534,210	SALAS ET AL.			
Office Action Summary	Examiner	Art Unit			
	CHIH-MIN KAM	1656			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 12 Ju This action is FINAL . 2b)☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-95 is/are pending in the application. 4a) Of the above claim(s) 1-57,74 and 76-95 is/ 5) Claim(s) is/are allowed. 6) Claim(s) 58-73 and 75 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine	are withdrawn from consideration election requirement.				
10)☑ The drawing(s) filed on <u>06 May 2005</u> is/are: a) Applicant may not request that any objection to the conference of Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Extended of the conference of the confer	drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/10/07;9/10/07;9/18/07.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Group IV, claims 58-73 and 75 in the response to restriction requirement filed June 12, 2008 is acknowledged. Claims 1-57, 74 and 76-95 are non-elected inventions and are withdrawn from consideration. Therefore, claims 58-73 and 75 are examined.

Claim Objections

2. Claims 58 and 75 are objected to because the claims recite "Figure 1", the figure should not be cited in the claim if the compound in the figure can be indicated with the name or structure. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 58-73 and 75 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claims 58-73 and 75 are directed to a compound selected from the group consisting of formula I and formula 2, in which R_1 ; R_2 , R_3 , R_6 , R_7 , R_9 or R_{11} ; R_4 ; and R_5 , R_{10} are each defined in the formula.

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In University of California v. Eli Lilly & Co., 43 USPQ2d 1938, the Court of Appeals for the Federal Circuit has held that "A written description of an invention involving a chemical genus, like a description of a chemical species, 'requires a precise definition, such as by structure, formula, [or] chemical name,' of the claimed subject matter sufficient to distinguish it from other materials". As indicated in MPEP § 2163, the written description requirement for a claimed genus may be satisfied through sufficient description of a representative number of species by actual reduction to practice, reduction to drawings, or by disclosure of relevant, identifying characteristics, i.e., structure or other physical and/or chemical properties, by functional characteristics coupled with a known or disclosed correlation between function and structure, or by a combination of such identifying characteristics, sufficient to show that Applicant was in possession of the claimed genus. In addition, MPEP § 2163 states that a representative number of species means that the species which are adequately described are representative of the entire genus. Thus, when there is substantial variation within the genus, one must describe a sufficient variety of species to reflect the variation within the genus.

While the specification discloses the compounds of formula 1 and formula 2 (pages 29-30), the specification does not describe the compounds of formula 1 and formula 2, in which analogues differing from the corresponding natural compound in the oxidation state of one or more of the ketide units (i.e., selection of alternatives from the group: -CO-, -CH(OH)-, =CH-, and -CH₂-). Although the specification discloses the production of 12-desnitrile-12-methyl borrelidin 14 (pre-borrelidin; Example 31), 12-desnitrile-12-carboxy borrelidin 2 (Example 32) and 17-des-(cyclopentane-2'-carboxylic

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acid)-17-(cyclobutane-2'-carboxylic acid)borrelidin 18 (Example 33) and structures of other borrelidins in Figs. 10 and 11, the specification does not show the production of these analogs that differ from the corresponding natural compound in the oxidation state of one or more of the ketide units. Furthermore, there is substantial structural variation in the genus of compounds of formula 1 or formula 2 analogs. Without guidance on the structures of these analogs and their production, one skilled in the art would not know how to produce these analogs. The lack of structural characterization of these analogs, and the lack of representative species in the claimed method, applicants have failed to sufficiently describe the claimed invention, in such full, clear, concise terms that a skilled artisan would not recognize applicants were in possession of the claimed invention.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 4. Claims 58-73 and 75 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 58-73 and 75 are indefinite because of the use of the phrase "(i.e., selection of alternatives from the group: -CO-, -CH(OH)-, =CH-, and -CH₂-)". The phrase "i.e." renders the claim indefinite because it is unclear whether the limitation(s) following the phrase are part of the claimed invention. See MPEP § 2173.05(d). Claims 58-73 are included in the rejection for being dependent of a rejected claim and not correcting the deficiency of the claim from which they depend.

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Conclusion

6. No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chih-Min Kam whose telephone number is (571) 272-0948. The examiner can normally be reached on 8.00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kathleen Bragdon can be reached at 571-272-0931. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Chih-Min Kam/
Primary Examiner, Art Unit 1656

CMK

September 12, 2008